







charge in cfs					Total Red	coverable I	ron Coef	ficients
	Intercept co	pefficient		•			В	ntercept
	•		ow Flow Nove	mber-March	Д	.72	0.290	967.14829
M34	-2.771	0.394	-2.28954	0.38718		134		213.03711
CC48	1.752	0.130	6.77165	0.10539		C48		6149.71503
A68	-11.131	0.498	-3.62869	0.45153		.68	0.000	417.72851
7100	11.101	0.100	-3.02009	0.43133	<u> </u>		0.000	417.72001
Discharge F	Relationships amo	ong the three	gages					
	MONTH	J	F	M	Α	M	J	J
	Intercept	1	1	1	1	1	1	1
	A 72	64	63	77	155	682	1196	624
	M34	22	22	28	58	266	468	243
	CC48	14	13	15	22	91	158	83
	A68	25	25	31	66	329	585	300
	Ground wate	3	3	3	9	-3	-14	-2
1/(1+BQ) D	ischarge Represe	entation						
, ,	A 72	0.0511	0.0519	0.0429	0.0218	0.0050	0.0029	0.0055
	M34	0.4915	0.4959	0.4413	0.2718	0.0756	0.0444	0.0821
	CC48	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119
	A68	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Data variah	laa							
Date variab	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
		0.1332	0.0338	0.3737	-0.1496	-0.6180	-0.9318	-0.1441
	cos	0.3066	0.7719	0.6932	-0.1490	-0.0160 -0.9717	-0.9318	0.2852
	sin1 cos1	0.3000	0.9615	-0.7207	-0.2959 -0.9552	-0.9717 -0.2361	0.7366	0.2652
	Consent	0.9516	0.1910	-0.7207 1	-0.9552 1	-0.2301 1	0.7300	0.9363
	Consent	1	1	1	1	1	1	3
A72	Intercept	1	1	1	1	1	1	1
	BQ	0.0511	0.0519	0.0429	0.0218	0.0050	0.0029	0.0055
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent							
A72 Cor	centration	4400	4835	4503	3201	2015	1663	1522
M34	Intercept	1	1	1	1	1	1	1
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BQ	0.4915	0.4959	0.4413	0.2718	0.0756	0.0444	0.0821
	sin	0.4510	0.4358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.1332	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.1450	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
M34 Conce		4848	4871	4578	3670	2618	2451	2653
20,,00			<del>-</del>					

CC 48	Intercept	1	1	1	1	1	1	1	
	BQ	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CC 48 Cor	centratrion	9912	9699	8832	7285	5433	4412	4134	
A68	Intercept	1	1	1	1	1	1	1	
	BQ	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent								
A68 Co	ncentration	432	560	644	673	633	534	406	
Concentrat	ioı	2640	2715	2611	2171	1626	1492	1530	
Load in por	unds per day								
	Sum	1410	1398	1547	2361	7515	11521	5979	
	A72	1521	1645	1872	2680	7420	10739	5127	
	% Difference	-0.07	-0.15	-0.17	-0.12	0.01	0.07	0.17	
	RPD	-0.08	-0.16	-0.19	-0.13	0.01	0.07	0.15	

tal Recoverable Iron	Coefficier	nts		
BQ	sin (	cos		
70284.48741	672.13924	-267.91244		
5360.03508	515.84443	1296.14462		
21591.29071	532.89897	2218.80854		
0	254.47374	-25.25660		
	•			
Α	S	0	N	D
1	1	1	1	1
268	187	142	92	70
103 37	71 26	53 20	33 16	25 14
122	82	60	38	28
6	8	9	4	3
0.0407	0.0404	0.0027	0.0064	0.0460
0.0127 0.1746	0.0181 0.2348	0.0237 0.2903	0.0361 0.3948	0.0469 0.4670
0.0265	0.0368	0.2903	0.0572	0.0660
1.0000	1.0000	1.0000	1.0000	1.0000
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1	1	1	1	1
1	1	1	1	1
0.0127	0.0181	0.0237	0.0361	0.0469
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1647	1705	1928	2817	3777
1	1	1	1	1
0.1746	0.2348	0.2903	0.3948	0.4670
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1.0000	1.0000	1.0000	1.0000	1.0000

3149 3471 3769 4329 4716

4	4	4	4
,	,	•	1
			0.0660
-0.9360	-0.9878	-0.7716	-0.3573
-0.3521	0.1556	0.6361	0.9340
0.6591	-0.3074	-0.9816	-0.6674
-0.7521	-0.9516	-0.1908	0.7447
1.0000	1.0000	1.0000	1.0000
5665	6984	8386	9457
1	1	1	1
1.0000	1.0000	1.0000	1.0000
-0.9360	-0.9878	-0.7716	-0.3573
-0.3521	0.1556	0.6361	0.9340
0.6591	-0.3074	-0.9816	-0.6674
-0.7521	-0.9516	-0.1908	0.7447
400	400	005	202
188	162	205	303
1830	1966	2267	2510
1000	1000	2201	2010
2290	1994	1619	1442
1722	1478	1400	1428
0.33	0.35	0.16	0.01
0.28	0.30	0.15	0.01
	0.6591 -0.7521 1.0000 <b>5665</b> 1 1.0000 -0.9360 -0.3521 0.6591 -0.7521 <b>188</b> 1830  2290 1722 0.33	0.0368       0.0470         -0.9360       -0.9878         -0.3521       0.1556         0.6591       -0.3074         -0.7521       -0.9516         1.0000       1.0000         5665       6984         1       1         1.0000       -0.9878         -0.3521       0.1556         0.6591       -0.3074         -0.7521       -0.9516         188       162         1830       1966         2290       1994         1722       1478         0.33       0.35	0.0368       0.0470       0.0572         -0.9360       -0.9878       -0.7716         -0.3521       0.1556       0.6361         0.6591       -0.3074       -0.9816         -0.7521       -0.9516       -0.1908         1.0000       1.0000       1.0000         5665       6984       8386         1       1       1         1.0000       1.0000       1.0000         -0.9360       -0.9878       -0.7716         -0.3521       0.1556       0.6361         0.6591       -0.3074       -0.9816         -0.7521       -0.9516       -0.1908         188       162       205         1830       1966       2267         2290       1994       1619         1722       1478       1400         0.33       0.35       0.16

A72								
	Chronic TV	S at A72			Pi	redicction E	quation Co	efficients
	a2 b	2				Hardness		
Cd	-3.49	0.7852		В		0.006		
Cu	-1.485	0.8545		In	tercept	82.304		
Mn	4.785	0.5434		В	Q	200.676		
Zn	0.7614	0.8473		siı	n	16.936		
				CC	s	48.860		
				Sil	n1	15.385		
				cc	s1	-5.633		
	Month	J	F	M	Α	M	J	J
	Q	64	63	77	155	682	1196	624
	Hardness	277	290	268	196	91	53	72
	Fe	1000	1000	1000	1000	1000	1000	1000

M 34									
	Prediction equation coefficients								
		Hardness Alu	ıminum(	Cadmium	Copper	Iron	Zinc		
	В	0.013	1.00	0.021	0.123	0.06521	0.021		
	Intercept	60.05228315	.10361	0.91724	14.65129	77.70523	205.25873		
	BQ .	205.02801338	.29032	0.60966	00.98354	70.29706	78.11589		
	sin	9.24827369	.03843	0.26911	14.16661	-89.38888	88.77920		
	cos	32.30173)79	.08681	0.20991	10.17487	38.04002	85.94018		
	sin1	435	.43127	-0.12214	1.04278	86.24646	-17.99615		
	cos1					-12.30367			
	consent		.10754			35.80515			
	COHSCH	-203	.10734		10.73402	33.00313	-30.00370		
	MONTH	J	F	М	Α	М	J	J	
	_	22	22	28	58	266	468	243	
Avg monthly									
	Hardness		241	226	170	86	60	76	
Chronic Star	ı-Fe	1000	1000	1000	1000	1000	1000	1000	
1									

A68 Anima	as at Silve	erton						
	Prediction equation coefficients							
		Hardness Ca	dmium	Copper	Mangane:	Zinc		
	В	0.011na	İ	na	0.010	0.016		
	Intercept	37.945	2.395	5.783	258.473	304.617		
	BQ	165.600			1371.923	644.136		
;	sin		1.712	2.049	611.024	315.451		
	cos		0.140	0.729	81.662	-18.603		
;	sin1		-0.250	-1.520	16.031	-33.783		
	cos1		-1.185	-0.472	-263.628	-140.108		
	May		-1.936	2.261	-258.699			
	consent		-0.714	-1.828	411.428	-67.174		
Animas R	Month	J	F	М	Α	М	J	J
	Q	25	25	31	66	329	585	300
	Hardness	168	168	161	134	74	60	76
	Cd,tvs	1.7	1.7	1.7	1.4	0.9	8.0	0.9
	Cu tvs	18	18	17	15	9	8	9
	Mn tvs	1935	1938	1895	1713	1240	1110	1264
nic stand	Fe	1000	1000	1000	1000	1000	1000	1000

## ction Equation Coefficients

Α	S	0	Ν	D
268	187	142	92	70
124	158	182	215	248
1000	1000	1000	1000	1000

		Acute TVS			
		a2 b	2	a3 t	ე3
Cd		-3.828	1.128	-3.49	0.7852
Cu		-0.7703	0.9422	-1.485	0.8545
Mn		4.4995	0.7893	4.785	0.5434
Zn		0.8904	0.8473	0.7614	0.8473
	۸	0	0	N I	Б
	Α	S	O	N	D
	103	71	53	33	25
	126	151	192	217	253
	1000	1000	1000	1000	1000

	С	hronic TV	S at A68		
	а	2 b	2		
Cd		-3.49	0.7852		
Cu		-1.485	0.8545		
Mn		4.785	0.5434		
Zn		0.7614	0.8473		
	Α	S	0	N	D
	122	82	60	38	28
	109	125	138	155	165
	1.2	1.4	1.5	1.6	1.7
	12	14	15	17	18
	1528	1650	1741	1854	1916
	1000	1000	1000	1000	1000